ATTY. DOCKET NO.: SERIAL NO .: To Be Assigned FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE 200.1125CON LIST OF PRIOR ART CITED BY APPLICANT APPLICANT(S): Ronald BURCH, et al. (Use several sheets if necessary) FILING DATE: GROUP: To Be Assigned Herewith U.S. PATENT DOCUMENTS DOCUMENT NUMBER DATE CLASS SUB FILING DATE *EXAMINER NAME **CLASS** INITIAL **APPROPRIATE** M 02/11/97 OENICK, ET AL. 435/7.93 435/188 FOREIGN PATENT DOCUMENTS COUNTRY CLASS SUB TRANSLATION DOCUMENT NUMBER DATE **CLASS** NO YES M AΒ 03 0 В 11/14/90 ΕP G0 1N 35/53 N/A N/A 96 W N/A AC 03 86 09/12/90 EP C12P 21/00 N/A Α 9 21/08 N/A N/A ΑD 05 09 10/21/92 EΡ C12P 7 C07K 7/04 N/A ΑE WO 91 7 9 11/14/91 **PCT** N/A ΑF 89 11/16/89 AUSTRALIAN C12Q 001/68 G01N 033/53 N/A N/A AG ΑH OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) M ΑI Benjamin Margolis and Richard A. Young; Screening Lexpression libraries with antibody and protein probes; pp. 1-14; 1995; DNA Cloning 2 Expression Systems A Practical Approach; IRL Press at Oxford University Press; New York. Jamie K. Scott; Identifying Lead Peptides From Epitope Libraries; pp. 1-27; 1995; Biological Approaches to Rational Drug Design; ΑJ CRC Press, Boca Raton W Kenneth Kaushansky; The Hematopoietic Colony-Stimulating Factors; pp.51-72; 1995; Biological Approaches to Rational Drug ΑK Design; CRC Press, Boca Raton. ABSTRACT - Comparative sequence and immunochemical analyses of murine monoclonal anti-morphine antibodies. Miller A 3d; ΑL Glasel JA; Department of Biochemistry, University of Connecticut Health Center, Farmington 06032. J. Mol Biol (ENGLAND) October 20, 1989, 209 (4) pp. 763-778. AM ABSTRACT for WO 9514710 A1, published June 1, 1995. AN Abstract - Binding of antimorphine anti-idiotypic antibodies to opiate receptors. Ng DS, Isom GE; Eur J. Pharmacol 1984, June 15; 102(1): pp. 187-190 DATE CONSIDERED **EXAMINER**

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U.S. DEPARTMENT OF COMMERCE ATTY. DOCKET NO .: SERIAL NO .: To Be Assigned FORM PTO-1449 PATENT AND TRADEMARK OFFICE 200.1125CON (REV. 7-80) APPLICANT(S): Ronald BURCH, et al. LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary) GROUP: To Be Assigned FILING DATE: Herewith U.S. PATENT DOCUMENTS FILING DATE **CLASS** SUB DOCUMENT NUMBER DATE NAME *EXAMINER CLASS IF APPROPRIATE INITIAL 12/20/88 KIM, ET AL. 424/85.8 424/94.1 BA FOREIGN PATENT DOCUMENTS TRANSLATION **CLASS** SUB DOCUMENT NUMBER DATE COUNTRY CLASS NO YES M 7/25/91 PCT G01N 33/53 33/531 N/A N/A BB wo 91 0 BC WO 95 8 6 9 7/13/95 **PCT** G01N 33/53 33/68 N/A N/A OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) ARTICLE - Anti-idiotypic antibodies: a useful alternative for studying the biochemical expression of μ/δ opioid binding sites in RD mammalian brain. Karine Cucumel, Anny Cupo; Journal of Neuroimmunology 62 (1995) pp.183-195. N ARTICLE- Farid, N. R., Briones-Urbina, R. & Islam, M.N. (1984) Anti-idiotypic antibodies as probes for hormone-receptor BE interaction. Can. Biochem. Cell Biol. 62, pp. 1225-1267. ARTICLE- A Sensitive Radioimmunoassay for the Detection of Monoclonal Anti-Idiotope Antibodies; Grant Morahan, Journal of N BF Immunology Methods, 57 (1983); pp. 165-170. M ARTICLE- The Immune Response Towards \(\beta\)-Adrenergic Ligands and Their Receptors, VI. Idiotypy of Monoclonal Anti-alprenolol BG Antibodies¹; Soulaima Chamat, et al.., Journal of Immonology; Vol. 136, No. 10, May 15, 1986 BH ABSTRACT- Hydrophobic interactions and the design of receptor mimetic peptides; Martin-Moe SA, et al.; Pept Res 1995 March -April;8(2): 70-6 ВΙ ABSTRACT -Determination of plicamycin in plasma by radioimmunoassay; Fang K; Koller CA, et al.; Ther Drug Monit 1992 June; 14(3):225-60 17 ABSTRACT- A simple 'free 3H-ligand' assay for rapid screening of hybridoma monoclonal antibodies against neurotransmitter ΒJ analogs and anti-idiotype antibodies, Simmons RD; Linthicum DS; J Neuroimmunol 1986 May; 11(3):245-9. ABSTRACT- Mapping of the prekallikrein-binding site of human H-kininogen by ligand screening of lambda gtll expression RK libraries. Mimicking of the predicted binding by anti-idiotypic antibodies; Vogel R; Kraufmann J, et al.; J Biol Chem 1990, July 25; 265(21):12494-502 BLABSTRACT- Routes to catalysis: structure of a catalytic antibody and comparison with its natural counterpart; Haynes MR, et al.; Science 1994, February 4; 263(5147) 646-52. BM ABSTRACT- Molecular basis of antigen mimicry by an anti-idiotope; Fields BA, et al.; Nature 1995 April 20; 374(6524): 739-42. ABSTRACT- Exploring the mimicry of polysaccharide antigens by anti-idiotypic antibodies. The crystallization, molecular BN replacement, and refinement to 2.8 A resolution of an idiotope-anti-idiotope Fab complex and of the unliganded anti-idiotope Fab.; Evans SV, et al.; J Mol Biol 1994 September 2; 241(5): 691-705. **EXAMINER** DATE CONSIDERED

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Sheet 3 of 6 U.S. DEPARTMENT OF COMMERCE ATTY. DOCKET NO .: SERIAL NO.: To Be Assigned FORM PTO-1449 PATENT AND TRADEMARK OFFICE 200.1125CON (REV. 7-80) APPLICANT(S): Ronald BURCH, et al. LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary) GROUP: To Be Assigned FILING DATE: Herewith U.S. PATENT DOCUMENTS **SUBCLASS** NAME **CLASS** FILING DATE *EXAMINER DOCUMENT NUMBER DATE IF APPROPRIATE INITIAL 436/547 4/21/87 TRAMONTANO, et al. 424/85 CA 4 435/108 435/188.5 9 0 8 5 3/2/93 SCHULTZ CB 5 FOREIGN PATENT DOCUMENTS CLASS **SUBCLASS** TRANSLATION DOCUMENT NUMBER DATE COUNTRY YES NO CC OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) ABSTRACT- Radioimmunoassay of anticonvulsant drugs: phenytoin, phenobarbital, and primidone; Cook, C.E., et al., Quant. Anal. CD Stud. Epilepsy pp. 39-58, Raven, New York, 1976. CE ABSTRACT- Determination and control of bimolecular interactions by using overlapping peptides for epitope mapping, vaccine discovery, drug design and diagnostic purposes. Gershoni, Jonathan M., Enshel, David; PCT Int. Appl. WO 9820169 A1. ABSTRACT- Epitope identification by polyclonal antibody from phage-displayed random peptide library; Yao, Zhi-Jian, et al.; $\mathcal{U}_{\mathcal{T}}$ CF J. Protein Chem. (1995), 14(3), 161-6. ABSTRACT-Immunochemical simulation of ligand-receptor interactions. Communication II. Interaction of N-choline receptor CG recognition-modeling antibodies with dicholine and dihomocholine esters of dicarboxylic acids; Burkin, A.A., et al.; Khim.-Farm. Zh. (1992), 26(4), 26-9. ABSTRACT for WO 8806592 A1, published September 7, 1988. CH ABSTRACT - Computer-aided molecular modeling of the binding site architecture for eight monoclonal antibodies that bind a high CI potency guanidinium sweeter.; Anchin JM, et al.; J Mol Graph 1994, December; 12(4):257-66, 289-90. ABSTRACT - One bead, one chemical compound: use of the selectide process for anticancer drug discovery.; Salon SE, et al.; Acta CJ Oncol 1994; 33(2):127-31. ABSTRACT-Improving the antigen affinity of antibody Fv-fragment by protein design.; Reichmann L, Weill M, Cavanagh J.; CK J. Mol Biol 1992, April 20;224(4):913-8. ABSTRACT - Synthesis conformational properties, and antibody recognition of peptides containing beta-turn mimetics based on

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ABSTRACT- Monoclonal antibodies against a phencyclidine derivative are used to investigate protein-ligand interactions.; Casalotti

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE ATTY. DOCKET NO .: SERIAL NO.: To Be Assigned PATENT AND TRADEMARK OFFICE 200.1125CON (REV. 7-80) APPLICANT(S): Ronald BURCH, et al. LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary) FILING DATE: Herewith GROUP: To Be Assigned U.S. PATENT DOCUMENTS *EXAMINER DOCUMENT NUMBER DATE NAME **CLASS** SUB FILING DATE IF APPROPRIATE CLASS INITIAL 3/7/95 PONTICELLO, ET AL. 540/589 540/575 DA 5 3 W DB 0 9 10/26/93 BLINCKO 424/85.8 424/88 M 9 0 6/24/97 SELF 436/548 435/7.1 DC 6 4 2 5/31/94 BIGNER, ET AL. 435/193 435/803 DD 5 3 6 W 530/387.2 435/7.92 DE 11/23/93 SIKORSKA, ET AL N 4 9 6 5 4/1/80 FOCELLA, ET AL. 424/1 23/230 B DF 8 n DG 5 6 8 11/21/95 SELF 436/548 435/7.1 1 DΗ 7 8 7 11/26/96 BRUMMOND, ET AL. 435/7.93 435/188 5 7 0 7/30/96 KAUVAR 435/7.9 435/7.93 DI 5 4 1 0 7 3 435/6 435/7.1 DJ 5/5/98 ECKER, ET AL. W 0 2 5/23/89 **GEYSEN** 436/501 436/518 3 DK 8 3 M 8 8/25/92 HYLARIDES, ET AL. 210/635 210/656 DL 5 1 4 1 6 5 4 3/1/83 STRAHILEVITZ 210/638 128/214 R DM 4 3 4 435/7.1 435/7.2 DN 5 10/15/96 **BLAKE** FOREIGN PATENT DOCUMENTS **CLASS SUBCLAS** TRANSLATION DOCUMENT NUMBER DATE COUNTRY YES NO DO OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) DP ABSTRACT - Principles and pitfalls in designing site-directed peptide ligands.; Edmundson AB, et al.; Proteins 1993, July;16(3):246-67. ABSTRACT - A shape- and chemistry-based docking method and its use in the design of HIV-1 protease inhibitors., DesJaralais RL, DQ Dixon JS; J Comput Aided Mol Des 1994, June;8(3):231-42. DR ABSTRACT- The broad utility of soluble peptide libraries for drug discovery.; Houghten RA; Gene 1993, December 27;137(1):7-EXAMINER DATE CONSIDERED *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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M	FC	5	3	8	2	5	1	3	01/17/95	LAM, ET AL.	435/7.1	435/4			
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W	FH	ARTICLE - Monoclonal antibodies against a phencyclidine derivative are used to investigate protein-ligand interactions; Stefano O. Casalotti, et al.; European Journal of Pharmacology - Molecular Pharmacology Section, 247 (1993) 209-213.													
12/	FK	ARTICLE - New Persepctives on Catalytic Antibodies; Jeffrey W. Jacobs; Bio\Technology Vol 9, March, 1991 pp. 258-262.													
My,	FL	ARTICLE - Molecular basis of antigen mimicry by an anti-idiotope; Barry A. Fields, et al.; Nature Vol. 374, pp. 739-742.													
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